# Fractal Harmonic Field Theory - Page 50: delta^2 Cyclone Field - Entropic Force Geometry

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This page presents the first formal model of a entropy vortex a cyclonic recursion structure whose entropic force field mirrors galactic halo dynamics and dark matter lensing.

#### 1. Field Definition (2D Gaussian Vortex):

$$(x, y) = \exp[-(x + y)/(2)]$$

Where:

is peak entropy density

is vortex scale radius

(x, y) are spatial coordinates

#### 2. Entropic Force Components:

$$F = -(x/) \exp[-(x+y)/(2)]$$

$$F = -(y/) \exp[-(x+y)/(2)]$$

This produces a harmonic inward pull that decays radially a recursive, fractal field geometry.

### 3. Geometry and Behavior:

The force field is centripetal

Vortex core represents minimal entropy

Structure is fractal and rotationally symmetric

guides radiation like a spiral harmonic lens

## 4. Physical Implications:

Models dark matter halo behavior without particles

Describes gravitational lensing via recursive force

Shows how can shape galactic rotation, radiation arcs, and entropy-driven structure formation

### Conclusion:

The cyclone field is a concrete manifestation of entropy recursion in motion a fractal attractor shaping space, bending light, and encoding dark matter in pure field geometry.